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Review of "Codes: The Guide to Secrecy from Ancient to Modern Times by Richard A, Mollin".

A Chapman & Hall/CRC, 2005

Adam Bender

March SIGACT News, Volume 37 Issue 1 2006

Publisher: ACM

Full text available: Pdf (124.80 KR)

Additional Information: full citation, references, index terms

expanded form

Bibliometrics: Downloads (6 Weeks); 0, Downloads (12 Months); 17, Downloads (Overall); 160, Citation Count; 0

Security in outsourcing of association rule mining

W. K. Wong, David W. Cheung, Edward Hung, Ben Kao, Nikos Mamoulis

VLDB '07: Proceedings of the 33rd international conference on Very large data bases September 2007

Publisher: VI DB Endowment

Full text available: Pdi (319.84

Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 22, Downloads (12 Months): 120, Downloads (Overall): 339, Citation Count: 1

Outsourcing association rule mining to an outside service provider brings several important benefits to the data owner. These include (i) relief from the high mining cost, (ii) minimization of demands in resources. and (iii) effective centralized mining ...

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Proceeding Series

Yee Wei Law, Jeroen Doumen, Pieter Hartel February 2006 Transactions on Sensor Networks (TOSN), Volume 2 Issue 1

3 Survey and benchmark of block ciphers for wireless sensor networks

Publisher: ACM & Request Permissions

Full text available: Pdf (354.39 Additional Information: full citation, appendices and supplements, abstract, references, index

Bibliometrics: Downloads (6 Weeks): 32, Downloads (12 Months): 309, Downloads (Overall): 2162, Citation Count: 10

Cryptographic algorithms play an important role in the security architecture of wireless sensor networks (WSNs), Choosing the most storage- and energy-efficient block cipher is essential, due to the facts that these networks are meant to operate without ...

Keywords: Sensor networks, block ciphers, cryptography, energy efficiency

4 Hardware and Binary Modification Support for Code Pointer Protection From Buffer Overflow Nathan Tuck, Brad Calder, George Varghese

December

MI CRO 37: Proceedings of the 37th annual IEEE/ACM International Symposium on 2004 Microarchitecture

Publisher: IEEE Computer Society

Full text available: Pdf (294.15

Additional Information: tull citation, abstract, references, cited by

KB) Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 48, Downloads (Overall): 458, Citation Count: 15

Buffer overflow vulnerabilities are currently the most prevalent security vulnerability; they are responsible for over half of the CERT advisories issued in the last three years. Since many attacks exploit buffer overflow vulnerabilities, techniques that ...

Versatile padding schemes for joint signature and encryption

Yevgeniy Dodis, Michael J. Freedman, Stanislaw Jarecki, Shabsi Walfish

October CCS '04: Proceedings of the 11th ACM conference on Computer and communications security 2004

Publisher: ACM & Request Permissions

Full text available: Pdf (203.91 Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 6. Downloads (12 Months): 51. Downloads (Overall): 563. Citation Count: 1

We propose several highly-practical and optimized constructions for joint signature and encryption primitives often referred to as < i> signcryption < /i> . All our signcryption schemes, built directly from trapdoor permutations such as RSA, share ...

Keywords: extractable commitments, feistel transform, joint signature and encryption, signcryption, universal padding schemes

6 Proofs of retrievability: theory and implementation

Kevin D. Bowers, Ari Juels, Alina Oprea

November 2009 CCSW '09: Proceedings of the 2009 ACM workshop on Cloud computing security

Publisher: ACM & Request Fermissions

Full text available: Full (538.44 Additional Information: full citation, abstract, references, index terms KB)

Bibliometrics: Downloads (6 Weeks): 48, Downloads (12 Months): 84, Downloads (Overall): 84, Citation Count: 0

A proof of retrievability (POR) is a compact proof by a file system (prover) to a client (verifier) that a target file F is intact, in the sense that the client can fully recover it. As PORs incur lower communication complexity than transmission ...

Keywords: cloud storage, data availability, erasure codes, proofs of retrievability

7 Energy evaluation of software implementations of block ciphers under memory constraints Johann Großschädl, Stefan Tillich, Christian Rechberger, Michael Hotmann, Marcel Medwed April DATE '07: Proceedings of the conference on Design, automation and test in Europe 2007

Publisher: EDA Consortium

Full text available: Pdf (262.13

Additional Information: full citation, abstract, references, citad by

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 75, Downloads (Overall): 261, Citation Count: 1

Software implementations of modern block ciphers often require large lookup tables along with code size increasing optimizations like loop unrolling to reach peak performance on general-purpose processors. Therefore, block ciphers are difficult to implement ...

Keywords: code size reduction, energy optimization, lightweight cryptography, memory footprint, symmetric cipher

8 Battery power-aware encryption

R. Chandramouli, S. Bapatla, K. P. Subbalakshmi, R. N. Uma

May Transactions on Information and System Security (TISSEC), Volume 9 Issue 2 2006

Publisher: ACM (> Request Pennensions

Full text available: Pdf (454.71 Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 146, Downloads (Overall): 831, Citation Count: 2

Minimizing power consumption is crucial in battery power-limited secure wireless mobile networks. In this paper, we (a) introduce a hardware/software set-up to measure the battery power consumption of encryption algorithms through real-life experimentation, ...

Keywords: Low-power encryption, optimization, profiling

9 ASIP architecture exploration for efficient IPSec encryption: A case study

Hanno Scharwaechter, David Kammier, Andreas Wieferink, Manuel Hohenauer, Kingshuk Karuti, Janijang Ceng, Rainer Leupera, Gerd Ascheid, Heinrich Meyr

May Transactions on Embedded Computing Systems (TECS), Volume 6 Issue 2

2007
Publisher: ACM Nacquest Permessions

Full text available: [393.57 Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 119, Downloads (Overall): 480, Citation Count: 1

Application-Specific Instruction-Set Processors (ASIPs) are becoming increasingly popular in the world of customized, application-driven System-on-Chip (SoC) designs. Efficient ASIP design requires an iterative architecture exploration loop--gradual ...

Keywords: ADL, ASIP, IPSec, computer-aided design

to control a set of sensor devices attached ...

10 Design and evaluation of lightweight middleware for personal wireless body area network

Agustinus Borgy Waluyo, Isaac Pek, Xiang Chen, Wee-Soon Yeoh

October Personal and Ubiquitous Computing, Volume 13 Issue 7

2009

Publisher: Springer-Verlag

Full text available: Pdf (1.07

Additional Information: full cliation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 35, Downloads (12 Months): 118, Downloads (Overall): 118, Citation Count: 0

This paper presents a lightweight middleware to be used for wireless medical body area networks. The middleware is designed to reside in mobile devices, and acts as a gateway to receive sensor data as well as

Keywords: Lightweight middleware, Mobile middleware, Wireless body area network middleware

11 Efficient and provably secure ciphers for storage device block level encryption

November StorageSS'09

November StorageSS '05: Proceedings of the 2005 ACM workshop on Storage security and survivability 2005

Publisher: ACM N Request Parmessurs

Full text available: Pdf (85.22 Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 32, Downloads (Overall): 185, Citation Count: 0

Block ciphers generally have fixed and relatively small input length. Thus they are often used in some mode of operations (e.g., ECB, CBC, CFB, and CTR) that enables the encryption of longer messages. Unfortunately, all these modes of operation reveal.

Keywords: hash function, storage device encryption, symmetric cipher

- 12 Enhancing lifetime and security of PCM-based main memory with start-gap wear leveling
- Moinuddin K. Qureshi, John Karidis, Michele Franceschini, Vijavalakshmi Srinivasan, Luis Lastras, Bulent Abali December Micro-42: Proceedings of the 42nd Annual IEEE/ACM International Symposium on 2009 Microarchitecture

Publisher: ACM & Request Parmissions

Full text available: Pdf (1.28 Additional Information: full citation, abstract, references, inclex terms

Bibliometrics: Downloads (6 Weeks): 45. Downloads (12 Months): 45. Downloads (Overall): 45. Citation Count: 0

Phase Change Memory (PCM) is an emerging memory technology that can increase main memory capacity in a cost-effective and power-efficient manner. However, PCM cells can endure only a maximum of 107 -108 writes, making a PCM based ...

Keywords: endurance, phase change memory, wear leveling

- 13 A low-resource public-key identification scheme for RFID tags and sensor nodes
- Yossef Oren, Martin Feldhofer

March WISec '09: Proceedings of the second ACM conference on Wireless network security 2009

Publisher: ACM Naquest Permissions

Full text available: Pdf (552.89 Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 32, Downloads (12 Months): 309, Downloads (Overall): 309, Citation Count: 0

We revisit a public key scheme presented by Shamir in [19] (and simultaneously by Naccache in [15]) and examine its applicability for general-purpose RFID tags in the supply chain. Using a combination of new and established space-saving methods, we present ...

Keywords: hardware implementation, public-key encryption, rabin encryption, rfid technology

- 14 Elastic block ciphers: the basic design
- Debra Cook, Angelos Keromytis, Moti Yung

March ASI ACCS '07: Proceedings of the 2nd ACM symposium on Information, computer and 2007 communications security

Publisher: ACM (Bequest Permissions

Full text available: Full (146.57 KB)

Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 43, Downloads (Overall): 216, Citation Count: 1

We introduce the concept of an elastic block cipher, which refers to stretching the supported block size of a block cipher to any length up to twice the original block size while incurring a computational workload that is proportional to the block ...

Keywords: block ciphers, elastic block ciphers, encryption, variable-length block ciphers

- 15 Technical opinion: designing cryptography for the new century
- Susan Landau
 May 2000 Communications of the ACM. Volume 43 Issue 5

Publisher: ACM N Request Permissions

Full text available: Full (35.06 KB), Pdf (215.10 Additional Information: full citation, references, index lerrors KB)

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 97, Downloads (Overall): 1252, Citation Count: 1

16 Cryptanalysis of four-rounded DES using binary particleswarm optimization

Waseem Shahzad, Abdul Basit Siddigui, Farrukh Aslam Khan

GECCO '09: Proceedings of the 11th Annual Conference Companion on Genetic and Evolutionary 2009 Computation Conference: Late Breaking Papers

Publisher: ACM

Full text available: Pdf (452.35 Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 62, Downloads (Overall): 62, Citation Count: 0

Cryptanalysis of feistel ciphers is difficult due to their high nonlinearity and autocorrelation. On the other hand, substitution ciphers are easily breakable due to their simpler encryption process. In this paper, a highly efficient Binary Particle ...

Keywords: cryptanalysis, des, fitness function, ga, pso

17 High performance encryption cores for 3G networks

Tomás Baideras-Contreras, René Cumplido

June 2005 DAC '05: Proceedings of the 42nd annual Design Automation Conference

Publisher: ACM Neguest Permissions

Full text available: Pdf (869.33 Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 47, Downloads (Overall): 454, Citation Count: 0

This paper presents two novel and high performance hardware architectures, implemented in FPGA technology, for the KASUMI block cipher; this algorithm lies at the core of the confidentiality and integrity algorithms defined for the Universal Mobile Telecommunication ...

Keywords: 3G, FPGA, KASUMI, UMTS security architecture

18 Review of Coding theory and cryptography: the essentials, second edition, revised and expanded by

 D.R. Hankerson, et al. Marcel Dekker, 2000. Robert J. Irwin

December SIGACT News . Volume 34 Issue 4

2003

Publisher: ACM Full text available: Pdi (73.81 KB)

Additional Information: full citation, references

Bibliometrics; Downloads (6 Weeks); 3. Downloads (12 Months); 30. Downloads (Overall); 453. Citation Count; 0.

19 Cryptanalysis of four-rounded DES using binary particle swarm optimization

Waseem Shahzad, Abdul Basit Siddiqui, Farrukh Aslam Khan July GECCO '09: Proceedings of the 11th Annual conference on Genetic and evolutionary computation 2009

Publisher: ACM

Full text available: Pdf (353.56 Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 50, Downloads (Overall): 50, Citation Count: 0

A highly efficient Binary PSO based cryptanalysis approach for four-rounded DES is presented. Several optimum keys are generated in different runs of the algorithm on the basis of their fitness value and finally. the real key is found by quessing every ...

Keywords: DES, GA, PSO, cryptanalysis, fitness function

20 Programming by sketching for bit-streaming programs

Armando Solar-Lezama, Rodric Rabbah, Rastislav Bodik, Kemai Ebcioslu

June PLDI '05: Proceedings of the 2005 ACM SIGPLAN conference on Programming language design and implementation

Publisher: ACM & Request Permesions

Full text available: Pdf (320.08 Additional Information: juli citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 70, Downloads (Overall): 424, Citation Count: 7

This paper introduces the concept of programming with sketches, an approach for the rapid development of high-performance applications. This approach allows a programmer to write clean and portable reference

Keywords: StreamIt, domain specific compiler, domain specific language, sketching, stream programming, synchronous dataflow

Also published in:

June 2005 SIGPLAN Notices Volume 40 Issue 6

code, and then obtain a high-quality ...

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